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Christopher W. Fraser Microsoft Research, One Microsoft Way, Redmond, WA

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↑ ABSTRACT

This paper describes experiments that apply machine learning to compress computer programs, formalizing and automating decisions about instruction encoding that have traditionally been made by humans in a more ad hoc manner. A program accepts a large training set of program material in a conventional compiler intermediate representation (IR) and automatically infers a decision tree that separates IR code into streams that compress much better than the undifferentiated whole. Driving a conventional arithmetic compressor with this model yields code 30% smaller than the previous record for IR code compression, and 24% smaller than an ambitious optimizing compiler feeding an ambitious general-purpose data compressor.

↑ REFERENCES

Note: OCR errors may be found in this Reference List extracted from the full text article. ACM has opted to expose the complete List rather than only correct and linked references.

- 1 Timothy C. Bell, John G. Cleary, Ian H. Witten, Text compression, Prentice-Hall, Inc., Upper Saddle River, NJ, 1990
- 2 M. Burrows and D. J. Wheeler. A block-sorting lossless data compression algorithm. Digital SRC research report 124, 5/10/94.



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2000, Vancouver, British Columbia, Canada June 18 - 21, 2000

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Sung-Ho Ahn; Min-Gyu Kang; Doo-Hyun Kim; Hyung-Chul Kim; Information Networking, 2001. Proceedings. 15th International Conference of Jan.-2 Feb. 2001
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5 Stream bubbles for steady flow visualization

Bing Zhang; Pang, A.;

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6 Stream-temperature estimation from thermal infrared images

Kay, J.; Handcock, R.N.; Gillespie, A.; Konrad, C.; Burges, S.; Naveh, N.; Bot D.;

Geoscience and Remote Sensing Symposium, 2001. IGARSS '01. IEEE 2001 International , Volume: 1 , 9-13 July 2001

Pages:112 - 114 vol.1

[Abstract] [PDF Full-Text (533 KB)] IEEE CNF

7 Scene and content analysis from multiple video streams

Guler, S.;

Applied Imagery Pattern Recognition Workshop, AIPR 2001 30th , 10-12 Oct. Pages: 119 - 125

[Abstract] [PDF Full-Text (724 KB)] IEEE CNF

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1 Split-stream dictionary program compression

Steven Lucco

May 2000 ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2000 conference on Programming language design and implementation, Volume 35 Issue 5

Full text available: pdf(89.99 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

This paper describes split-stream dictionary (SSD) compression, a new technique for transforming programs into a compact, interpretable form. We define a compressed program as interpretable when it can be decompressed at basic-block granularity with reasonable efficiency. The granularity requirement enables interpreters or just-in-time (JIT) translators to decompress basic blocks incrementally during program execution. Our previous approach to interpretable compression, the Byte-coded RISC ...

Keywords: compression, runtime system, virtual machine

2 Designing a trace format for heap allocation events

Trishul Chilimbi, Richard Jones, Benjamin Zorn

October 2000 ACM SIGPLAN Notices , Proceedings of the second international symposium on Memory management, Volume 36 Issue 1

Full text available: The pdf(1.53 MB)

Additional Information: full citation, abstract, citings, index terms

Dynamic storage allocation continues to play an important role in the performance and correctness of systems ranging from user productivity software to high-performance servers. While algorithms for dynamic storage allocation have been studied for decades, much of the literature is based on measuring the performance of benchmark programs unrepresentative of many important allocation-intensive workloads. Furthermore, to date no standard has emerged or been proposed for publishing and exchangin ...

3 Code optimization 1: Code optimization for code compression Milenko Drinić, Darko Kirovski, Hoi Vo

March 2003 Proceedings of the international symposium on Code generation and optimization: feedback-directed and runtime optimization

Full text available: pdf(1.07 MB)

Additional Information: full citation, abstract, references, index terms

With the emergence of software delivery platforms such as Microsoft's .NET, reduced size of

transmitted binaries has become a very important system parameter strongly affecting system performance. In this paper, we present two novel pre-processing steps for code compression that explore program binaries' syntax and semantics to achieve superior compression ratios. The first preprocessing step involves heuristic partitioning of a program binary into streams with high auto-correlation. The second ...

	billary into screams with high auto-correlation. The second
4	Overlay & peer-to-peer networks: SplitStream: high-bandwidth multicast in cooperative environments Miguel Castro, Peter Druschel, Anne-Marie Kermarrec, Animesh Nandi, Antony Rowstron, Atul
	Singh October 2003 Proceedings of the nineteenth ACM symposium on Operating systems principles
	Full text available: pdf(847.74 KB) Additional Information: full citation, abstract, references, citings, index terms
	In tree-based multicast systems, a relatively small number of interior nodes carry the load of forwarding multicast messages. This works well when the interior nodes are highly-available, dedicated infrastructure routers but it poses a problem for application-level multicast in peer-to-peer systems. SplitStream addresses this problem by striping the content across a forest of interior-node-disjoint multicast trees that distributes the forwarding load among all participating peers. For example, i
	Keywords : application-level multicast, content distribution, end-system multicast, peer-to-peer, video streaming
5	Bytecode compression via profiled grammar rewriting
	William S. Evans, Christopher W. Fraser May 2001 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 2001 conference on Programming language design and implementation, Volume 36 Issue 5 Full text available: T pdf(1.03 MB) Additional Information: full citation, abstract, references, citings, index
	This paper describes the design and implementation of a method for producing compact, bytecoded instruction sets and interpreters for them. It accepts a grammar for programs written using a simple bytecoded stack-based instruction set, as well as a training set of sample programs. The system transforms the grammar, creating an expanded grammar that represents the same language as the original grammar, but permits a shorter derivation of the sample programs and others like them. A program's de
	Keywords : bytecode interpretation, context-free grammars, program compression, variable-to-fixed length codes
6	Software techniques for program compaction: Cold code decompression at runtime Saumya Debray, William S. Evans August 2003 Communications of the ACM, Volume 46 Issue 8
	Full text available: [
	Using a software-based technique to dynamically decompress selected code fragments during program execution.
7	Generation of first interpreters for Huffman compressed bytecode Mario Latendress , Marc Feeley June 2003 Proce leings of the 2003 workshop on Interpreters, Virtual Machines and Emul. 1075

Full text available: pdf(323.22 KB)

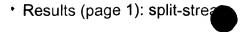
	Embedded systems often have severe memory constraints requiring careful encoding of programs. For example, smart cards have on the order of 1K of RAM, 16K of non-volatile memory, and 24K of ROM. A virtual machine can be an effective approach to obtain compact programs but instructions are commonly encoded using one byte for the opcode and multiple bytes for the operands, which can be wasteful and thus limit the size of programs runnable on embedded systems. Our approach uses canonical Huffman co	
	Keywords: Java, canonical Huffman code, code compression, decoder	
8	Profile-guided code compression Saumya Debray, William Evans May 2002 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 2002 Conference on Programming language design and implementation, Volume 37 Issue 5 Eull text available: The df(178.03 KB) Additional Information: full citation, abstract, references, citings, index	
	Full text available: pdf(178.02 KB) Additional information: toll citation, abstract, references, citings, index terms	
	As computers are increasingly used in contexts where the amount of available memory is limited, it becomes important to devise techniques that reduce the memory footprint of application programs while leaving them in an executable form. This paper describes an approach to applying data compression techniques to reduce the size of infrequently executed portions of a program. The compressed code is decompressed dynamically (via software) if nee led, prior to execution. The use of data compression t	
	Keywords : code compaction, code compression, code size reduction, dynamic decompression	
9	Building a scaleable geo-spatial DBMS: technology, implementation, and evaluation Jignesh Patel, JieBing Yu, Navin Kabra, Kristin Tufte, Biswadeep Nag, Josef Burger, Nancy Hall, Karthikeyan Ramasamy, Roger Lueder, Curt Ellmann, Jim Kupsch, Shelly Guo, Johan Larson, David De Witt, Jeffrey Naughton June 1997 ACM SITE OD Record, Proceedings of the 1997 ACM SIGMOD international conference on Management of data, Volume 26 Issue 2 Full text available: pdf(1.58 MB) Additional Information: full citation, abstract, references, citings, index	
	This paper presents a number of new techniques for parallelizing geo-spatial database systems and discusses their implementation in the Paradise object-relational database system. The effectiveness of these techniques is demonstrated using a variety of complex geo-spatial queries over a 120 GB global geo-spatial data set.	
10	How strong is v.c. mutation? A. Jefferson Offutt, Stephen D. Lee October 1991 Proceedings of the symposium on Testing, analysis, and verification	
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11	A code-splitting algorithm Wayne Amsbury December 1983 ACM SIGARCH Computer Architecture News, Volume 11 Issue 5 Full text available: pdf(350.44 KB) Additional Information: full citation, references	
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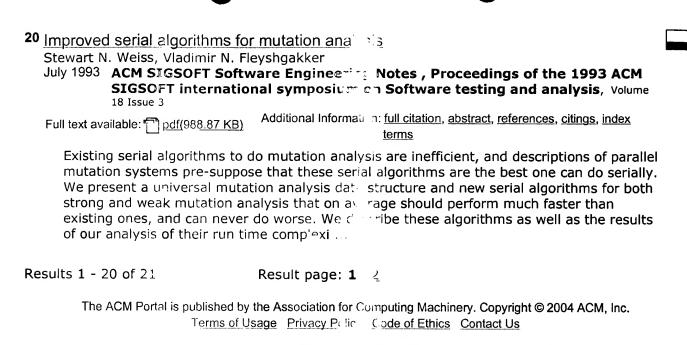
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12 Can networks make an organization?
Tamar Bermann, Kari Thoresen
January 1988 Proceedings of the 1988 ACM conference on Computer-supported
cooperative work
Full text available: pdf(891.20 KB) Additional Information: full citation, abstract, references, citings, index terms
Based on earlier work in Scandinavia, systems development is seen as both reflecting and shaping organizations. An ongoing action-research project at a large municipal hospital in Norway is taken as an example. This is a cooperative project in which nursing supervisors and researchers participate in shaping a learning process and designing a computer system. Some inherent contradictions, conflicts and challenges are indicated. Strengthening cooperation among themselves
13 Algorithm 806: SPRNG: a scalable library for pseudorandom number generation Michael Mascagni, Ashok Srinivasan September 2000 ACM Transactions on Mathematical Software (TOMS), Volume 26 Issue 3
Full text available: pdf(158.69 KB) Additional Information: full citation, abstract, references, citings, index terms
In this article we present background, rationale, and a description of the Scalable Parallel Random Number Generators (SPRNG) library. We begin by presenting some methods for parallel pseudorandom number generation. We will focus on methods based on parameterization, meaning that we will not consider splitting methods such as the leap-frog or blocking methods. We describe, in detail, parameterized versions of the following pseudorandom number generators: (i) linear congruential generators,
Keywords : lagged-Fibonacci generator, linear congruential generator, parallel random-number generators, random-number software, random-number tests
14 Niggara CO an applicable continuous guerra quatam for latera et detales es a
14 NiagaraCQ: a scalable continuous query system for Internet databases Jianjun Chen, David J. DeWitt, Feng Tian, Yuan Wang May 2000 ACM SIGMOD Record, Proceedings of the 2000 ACM SIGMOD international conference on Management of data, Volume 29 Issue 2
Full text available: pdf(165.02 KB) Additional Information: full citation, abstract, references, citings, index terms
Continuous queries are persistent queries that allow users to receive new results when they become available. While continuous query systems can transform a passive web into an active environment, they need to be able to support millions of queries due to the scale of the Internet. No existing systems have achieved this level of scalability. NiagaraCQ addresses this problem by grouping continuous queries based on the observation that many web queries share similar structures. Grouped queries
15 Digest of proceedings seventh IEEE work on hot topics in operating systems
March 29-30 1939, Rio Rico, AZ M. Satyanarayanan October 1000, a CM CXCORC Occupation Control of the Cartesian Control o
October 1999 ACM SIGOPS Operating Systems 'eview, Volume 33 Issue 4
Full text available: pdf(1.67 MB) Additional Information: full citation, abstract, index terms
The Seventh IEEE Workshop on Hot Topics in Operating Systems was held on March 29-30 1999 at the Rio Rico Resort & Doubtry Coop, south of Tucson, Arizona. The General Chair, Peter Druschel, and the Local Arrangements Chair, John Hartman, had gone to considerable effort to make the operation of the workshop smooth and pleasant for the participants. The secluded desert locale, the office of brilliant supplies and blue skips on



winter-jaded northerners, and the enthusiasm and energy of the \dots

16	Quantifying loop nest locality using SPEC'95 and the perfect benchmarks					
	Kathryn S. McKinley, Olivier Temam					
	November 1999 ACM Transactions on Computer Systems (TOCS), Volume 17 Issue 4 Full text available: 1 pdf(635-63 KB) Additional Information: full citation, abstract, references, citings, index					
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	This article analyzes and quantifies the locality characteristics of numerical loop nests in order to suggest future directions for architecture and software cache optimizations. Since most programs spend the majority of their time in nests, the vast majority of cache optimization techniques target loop nests. In contrast, the locality characteristics that drive these optimizations are usually collected across the entire application rather than at the nest level. Researchers have studied nu					
17	Performance modeling and code partitioning for the DS architecture					
	Yinong Zhang, George B. Adams					
	April 1998 ACM SIGARCH Computer Architecture News, Proceedings of the 25th annual international symposium on Computer architecture, Volume 26 Issue 3					
	Full text available: Publisher Site Additional Information: full citation, abstract, citings, index terms					
	DS (Decoupled-Superscalar) is a new microarchitecture that combines decoupled and superscalar techniques to exploit instruction level parallelism. Issue bandwidth is increased while circuit complexity growth is controlled with little negative impact on performance. Programs for DS are compiled into two instruction substreams: the dominant substream navigates the control flow and the rest of computational task is shared between the dominant and subsidiary substreams. Each substream is processed b					
18	Code compression					
	Jens Ernst, William Evans, Christopher W. Fraser, Todd A. Proebsting, Steven Lucco May 1997 ACM STARLAN Notices, Proceedings of the ACM SIGPLAN 1997 conference on Programming language design and implementation, Volume 32 Issue 5 Full text available: pdf(1.11 MB) Additional Information: full citation, abstract, references, citings, index terms					
	Current research in compiler optimization counts mainly CPU time and perhaps the first					
	cache level or two. This view has been important but is becoming myopic, at least from a system-wide viewpoint, as the ratio of network and disk speeds to CPU speeds grows exponentially. For example, we have seen the CPU idle for most of the time during paging, so compressing pages can increase total performance even though the CPU must decompress or interpret the page contents. Another profile shows that many					
19	A quantitative a "ysis of loop nest locality					
	Kathryn S. McKiniey, Olivier Temam					
	September 1996 * recedings of the seventh international conference on Architectural support for programming languages and operating systems, Volume 31,					
	30 Issue 9 , 5					
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	This paper analyzes and quantifies the locality characteristics of numerical loop nests in order to sugget future directions for architecture and software cache optimizations. Since most program spend the majority of their time in nests, the vast majority of cache optimization to aniques target loop nests. In contrast, the locality characteristics that drive these optimizations are usually collected across the entire application rather than the nest level. Indeed, the proches have studied numer					



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21 VPC3: a fast and effective trace-compression algorithm

Martin Burtscher

June 2004 ACM SIGMETRICS Terformance Evaluation Review, Proceedings of the joint international conference on Measurement and modeling of computer systems, Volume 32 Issue 1

Full text available: pdf(417.20 KB) Additional Information: full citation, abstract, references, index terms

Trace files are widely used in research and academia to study the behavior of programs. They are simple to process and guarantee repeatability. Unfortunately, they tend to be very large. This paper describes vpc3, a fundamentally new approach to compressing program traces. Vpc3 employs value predictors to bring out and amplify patterns in the traces so that conventional compressors can compress them more effectively. In fact, our approach not only regults in much higher compression ...

Keywords: predictor-based compression, trace compression, trace files

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